



Files are in PowerPoint (.ppt) format.

6th Annual System Engineering Conference

20-23 Oct 2003

Table of Contents

Monday, October 20, 2003

[ATLAST- Deployment & Push Pack Spares Optimizer](#) by Dr. Naaman Gurvitz

[ATLAST](#)

[Test and Development Efforts Affecting Systems Engineering Decisions for the AN/AWS-2 Rapid Airborne Mine Clearance System](#) by Mr. Alan K. Jenkins

[Technology Readiness Level Calculator](#) by Mr. William L. Nolte

[Technology Readiness Calculator](#)

[Evolutionary Acquisition \(EA\) Spiral Development \(SD\) Systems Engineering Methodology](#) by Mr. Richard (Dick) Engwall

[Integrated Framework for Modeling & Simulation of Complex Production Systems](#) by Dr. Michael Gaul

[Virtual Assembly Analysis and Simulation in an e-Design and Realization Environment](#) by Kyoung-Yun Kim, Ph. D.

[Evolution of Enterprise Program Management](#)

[Building a Complex System in a Standards-Driven Environment](#)

[An Overview of AP233 STEP's Systems Engineering Standard](#) by Jim U'Ren

[Strengthening Systems Engineering Execution at Boeing ...And Meeting Customer Needs](#) by Dev A. Banerjee

[Application of Object Oriented Systems Engineering Methodology and Tools for Complex Systems](#) by Mr. Vinnie Ferrando

[HSI/LMS Program Vision](#) by Ms. Rita J. Kuehn

[Using Modeling and Simulation to Predict and Evaluate System Performance Throughout the Lifecycle](#) by Mr.

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE OCT 2003		2. REPORT TYPE Conference Proceedings		3. DATES COVERED 20-10-2003 to 23-10-2003	
4. TITLE AND SUBTITLE System Engineering Conference (6th Annual) Held in San Diego, California on 20-23 October 2003				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) National Defense Industrial Association, 2111 Wilson Blvd., Ste. 400, Arlington, VA, 22201-3061				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) National Defense Industrial Association, 2111 Wilson Blvd., Ste. 400, Arlington, VA, 22201-3061				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presentations are attached to the report as separate files (PDF, Microsoft PowerPoint).					
14. ABSTRACT 6th Annual System Engineering Conference, 20-23 Oct 2003, San Diego, CA. Sponsored by NDIA					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Public Release	18. NUMBER OF PAGES 6	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Robert A. Basta

[The Role of Metadata in Simulation Based Acquisition Activities](#) by Mr. Roy Scrudder

[Towards Simulation Based Acquisition: RMS Initiatives](#) by Louisa Guise

[Using Six Sigma to Improve Systems Engineering](#) by Mr. Rick Hefner, Ph.D.

[Product-Based Approach for CMMI Appraisals](#) by Gary Natwick & Geoff Draper

[Extending CMMI to Hardware Engineering Disciplines](#) by Mr. Scott Potter

Tuesday, October 21, 2003

[Joint Battle Management Command and Control \(JBMC2\) System Engineering](#) by Brig Gen Walt Jones

[FCS System of Systems' Engineering and Integration](#) by Mr. Scott Davis

[Next Generation Systems Engineering An OSD Perspective](#) by Glenn F. Lamartin

[Welcome](#)

[Some Thoughts on Systems Engineering](#)

[System Development Powerhouse](#) by Mr. Jeffrey O. Grady

[Needs and Values Assessment Model for STAN](#)

[JSF Modeling Information Management](#) by Jim Hollenbach

[Evaluating a Complex System of Systems Using State Modeling and Simulation](#) by Mr. Dennis J. Anderson

[Virtual Systems Engineering Options to Support Rotorcraft Shipbased Test & evaluation](#) by Mr. Dean Carico

[Reuse of Legacy Data for Vehicle Support within the US Army](#) by Dr. Raj Iyer

[Aerospace Systems Engineering: The Fuzzy Front End](#) by Dr. Daniel P. Schrage

[What is the government \(DCMA\) looking for on programs... And just how do they predict acceptable progress](#)
by Mr. Mike Ferraro

[Requirements Nightmare Put to Rest](#) by Ms. Susan Weaver

[Whatever Happened to the Promise of Simulation Based Acquisition?](#) by W. Henson Graves

[Integration Building Blocks for Sensors and Systems – Digital Critical Infrastructure](#) by Mr. David W. Godso

[Application of the CMMISM to Plan and Control Life Cycle Costs](#) by Dr. Mary Anne Herndon

[CMMI® The Next Step in Process Improvement](#) by Mr. Mike Phillips

[Implementing on a Limited Budget: Leveraging Existing Tools within Lockheed Martin Aeronautics Customer Support Centers](#) by Mr. Charles Wright

[Earned Value in Performance Based Contracting](#) by Rami Acouri

[Performance-Based Logistics Affordability: Can We Afford Categorical Conversion to Performance-Based Acquisition?](#) by Andrew H. Adsit

[Logistics Acquisition, An Emphasis on Planning for Performance](#) by Ms. Judith A. Elliott-Brown

[Got Protection? Embedded Terrain Awareness Warning System \(eTAWS\)](#) by Maj Cody Allee

[The Test & Evaluation of EO Sensors](#) by Raymond F. Beach

[Live Fire Development Testing and Modeling & Simulation](#) by Mr. Timothy J. Rosemeyer

[AN/ALR-67\(V\)3 Advanced Special Receiver \(ASR\) Direct Vendor Delivery Program](#) by Mr. Daniel Buechler

[Soldier Focused Logistics "Transforming the Chinook"](#)

[PBL Process & Tools - MMIS](#) by E. Poitras

[Maximizing Operational Effectiveness through Acquisition Logistics](#) by Mr. Tom Parry

[Architecture Analysis for System-of-System \(SoS\) Interoperability Assessment](#) by Karen L. Lauro, Ph.D

[Enterprise Architectural Patterns for Command and Control](#) by Mr. Jerome D. Rosen

[Developing a Layered Reference Model for Information](#) by Mr. Jim U'Ren

Wednesday, October 22, 2003

[Human Systems Integration \(HSI\) In User-System Interface \(USI\) Development for Complex Information-Based Systems](#) by Mr. Stephen C. Merriman

[System Engineering Task Group](#)

[Systems Engineering of Complex Adaptive Systems](#) by Otto Jons

[STOCHASTIC SIMULATION - A New Tool for Engineering](#) by Gene Allen & Jacek Marczyk

[Simulation Based Network Protocol Design](#) by Timothy Hughes, Peter Do, and Wendell Kishaba

[Land Attack Systems Working Integrated Product Team](#)

[ConOps Development in a Highly Networked System](#) by Tom Herald & Dinesh Verma, Ph.D.

[Open Architecture Overview](#) by CAPT Tom Strei

[How To Define Processes in Expert Mode](#) by Tim Olson

[An Approach to the Design of a New System: Methodology as Applied to the MAGTF Expeditionary Family of Fighting Vehicles \(MEFFV\)](#) by Dr. Danielle Soban & Dr. Daniel DeLaurentis

[Application of Templates and Metrics to Enhance and Assess Systems Engineering Effectiveness in the IT Sector](#) by Mr. Mr. Paul Popick

[Transformation of Software Support Facilities: Evolving toward the "Lean AISF"](#) by Mr. Harold Lowery

[Application Behavior Management: A New Weapon in the Fight Against Costly Customized Software Failures](#) by Oded Noy

[Joint Strike Fighter "Interoperable by Design"](#) by Mr. John Gruetzmacher

[Net-Centric Operations & Warfare](#) by Mr. John L. Osterholz

[Keeping America's Navy #1 in the World](#) by Michael Barkenhagen/Raymond Tadros

[Contact Memory Button](#) by Roya Montakhab

[Tactical Unmanned Aerial Vehicle - Life Cycle Supportability](#) by Ms. Suzanne Schwitalla

[Designing for Comprehensive Support](#) by Mr. Thomas L. Nondorf

[The Significance of RCM2 applied to the CH-47D, Chinook](#) by Ms. Nancy Regan

[AEGIS Surface Warfare Closed-Loop Systems Engineering Using Operational Realistic Test & Evaluation](#)

[Next Generation In-Service Engineering Agent: Operational Readiness Test System Technical Assist Remote Support \(ORTSTARS\)](#) by Kris Hatakeyama

[Operational Readiness Test System Tech Assist Remote Support \(ORTSTARS\)](#) by Hai Tonthat

[Evolution of Open System Architectures in support of T&E for Naval Combat Systems](#) by Ted Mulder & Robert Mueller

[Multi-Platform Forward Looking Infrared Integrated Subsystems: A 21st Century Test & Evaluation Process](#) by Mark London and Richard Wilder

[Using Outsourcing for Strategic Advantage](#) by Tim Budden

[10 Steps to Better Requirements](#) by Mr. Larry Fellows

[OpTech - A Comprehensive Approach to Educating and Improving Organizational Systems Engineering](#)

[EC-130H Compass Call Software Support An application of the SOF EISE Concept](#) by David W. Smith & Thomas F. Christian Jr.

[More Cost Effective Approaches in Developing Test Program Sets \(TPSs\) for Various U.S. Air Force Avionics Systems](#) by Mr. Mark H. Swann

[The MUOS Needs SNMP](#)

[Logistics Information Interoperability](#) by Mr. Tom Shively

[Defensive Battle Stations In Network-Centric Warfare: Rapid-Response Cyber Forensics](#) by Stephen B. Webb & J. Philip Craiger, Ph.D

[The Differences Between the Project Manager and the Systems Engineer](#) by Mr. Tim Kasse

[On Using UML in the Systems Engineering Process for System Requirements Development](#) by Pete Ross, Shawn Simmons, and Michael Crow

[Root Cause Analysis of BIT False Alarms](#) by Mr. Kerry Westervelt

[JITC Interoperability Certification Process](#) by Mr. Byron Baker

[Wait, did I forget my network?](#) by Mr. J. Bryan Lail

[JDEP Overview](#)

Thursday, October 23, 2003

[Security: It's Just Good Systems Engineering](#) by Ms. Ronda R. Henning

[Rapid Response Technology Trade Study Tool R2T2](#) by Mr. Tom Herald

[Apache Focused Recapitalization Program](#) by Robert M. Cranwell

[Contract Repair Information System Pilot \(CRISP\) Phase 2](#)] by Curtis Holcomb & Ray VanderBok

[Information Continuity and Advanced Reasoning for Improved System Diagnostics and Prognostics](#) by Mr. Carl S. Byington

[Reduction of the Negative Differential Pressure by Using a Piccolo-type Igniter to the 40mm KE Ammunition](#) by Myung-Jun, Lee

[Risk Management of Aircraft Wiring System](#) by Wayne Boblitt and Chuck Singer

[Joint Council on Aging Aircraft](#) by Mr. Robert P. Ernst, USN

[Center for System Engineering](#) by Karen B. Bausman & Mark K. Wilson

[Systems Thinking](#) by Mr. Patrick Murray

[Technical Integrity Assurance For Product Development](#) by W. Henson Graves & Russ Campbell

[Effects of Aging on Aircraft Parts Study](#) by Mr. Leonard F. Bosma

[The System Engineering Challenges of Implementing an Automatic Wire Analyzer \(AWA\) System for the Naval Aviation Community](#) by Mr. Brian Cyrier

[Systems Engineering Development File](#) by Mr. Donald Gunther

[Systems Modeling Language Overview](#) by Cris Kobryn and Sandy Friedenthal

[Researching & Delivering Non-Traditional Systems Engineering Education](#) by Jenna Whitney

[UDEF IDs and OAGI BODs as elements of an Aerospace Industry Standard eBusiness Architecture](#) by Mr. Curt Garcia

[Data Management in the Digital Age](#) by Ms. Cynthia C. Hauer

[Architectural Freedom with Serial Interconnects](#) by Emmanuel Eriksson

[SMMOA Supply, Maintenance, Monitoring Open Architecture](#) by Mr. David Perrussel

[Legacy Systems Sustainment - Consolidated System Obsolescence Mitigation](#) by Mr. Sam Calloway

[Circuit Integrity Wire & Cable: Designed for Legacy & Future Systems Survival](#)

[Reuse of Legacy Data for Vehicle Support within the US Army](#) by Dr. Raj Iyer

[NDIA](#) by Mr. Don Johnson

[OpTech](#)

[Best Systems Engineering Products Drive CMMI](#) by Dr. Tom Sleight

[Application of Templates and Metrics to Enhance and Assess Systems Engineering Effectiveness in the IT Sector](#) by Dr. Dinesh Verma

[Deepwater Project Bofors Defence 57-mm L/70 Mk 3 Gun System System Engineering](#)